

Westside Purple Line Extension



Metro®

WESTSIDE PURPLE LINE EXTENSION PROJECT

QUARTERLY PROJECT STATUS REPORT

THE PREPARATION OF THIS DOCUMENT HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE U. S. DEPARTMENT OF TRANSPORTATION, FEDERAL TRANSIT ADMINISTRATION (FTA).

DECEMBER 2013


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PROJECT SUMMARY

| | | | | | | | |
|---|-------------------------|------------------------|-------------------------|--|-------------------|---------------------|-----------------------|
| LOCATION: Los Angeles / Beverly Hills | | | | CONSTRUCTION MANAGEMENT CONSULTANT: WEST JV | | | |
| DESIGN CONSULTANT: Parsons / Brinckerhoff | | | | CONTRACTOR: TBD | | | |
| EXPLORATORY SHAFT STAIRS LEADING TO FIRST LANDING | | | | WORK COMPLETED PAST MONTH | | | |
|  | | | | <ul style="list-style-type: none"> - C1034 Exploratory Shaft excavation to 44' depth - C1048 Advanced Utilities Relocations continuing at La Brea - CES Advanced Utility Relocations continuing at La Brea - Continued efforts seeking relief from Peak Hour Exemptions at locations other than La Brea - Continuing real estate needs coordination for Division 20 - Continuing Advanced PE for C1078 Division 20 MOW and NRV facilities - Continuing design for advanced utilities relocations and traffic control at Fairfax and La Cienega - Preparation of Traffic Control Plans for station construction | | | |
| EXPENDITURE STATUS (\$ In Millions) | | | | SCHEDULE ASSESSMENT | | | |
| ACTIVITIES | CURRENT ESTIMATE | EXPENDED AMOUNT | PERCENT EXPENDED | MAJOR SCHEDULE ACTIVITIES | PRIOR PLAN | CURRENT PLAN | VARIANCE WEEKS |
| DESIGN | \$163.0 | \$50.2 | 30.8% | Environmental | | | |
| | | | | FEIS / FEIR | N/A | 05/31/12 | Complete |
| RIGHT-OF-WAY | \$212.5 | \$1.4 | 0.7% | | | | |
| CONSTRUCTION | \$1,437.6 | \$8.3 | 0.6% | Design | | | |
| | | | | PE Notice to Proceed | N/A | 01/12/11 | Complete |
| OTHER | \$1,048.2 | \$54.8 | 5.2% | Final Design complete | 01/18/17 | 02/22/17 | 5 |
| TOTAL | \$2,861.3 | \$114.7 | 4.0% | - C1045 Amendment 5 extended RFP Proposal due date to January 30, 2014. | | | |
| Current Estimate includes Planning and Finance Costs. | | | | Right-of-Way | | | |
| | | | | All parcels available | 05/23/15 | 05/23/15 | On Schedule |
| AREAS OF CONCERN | | | | Construction - Main Design / Build Contract | | | |
| - Market conditions may lead to higher construction costs | | | | Notice to Proceed | 07/22/14 | 08/25/14 | 5 |
| | | | | Construction complete | 05/26/23 | 06/25/23 | 4 |
| | | | | - C1045 Amendment 5 extended RFP Proposal due date to January 30, 2014. | | | |
| ROW ACQUISITION | PLAN | ACQUIRED | REMAINING | CRITICAL ACTIVITIES / 3 MONTH LOOK AHEAD | | | |
| PERMANENT PARCELS | 24 | 0 | 24 | - Complete C1034 Exploratory Shaft excavation | | | |
| TEMPORARY PARCELS | 3 | 0 | 3 | - CES Completes Advanced Utility Relocations - La Brea | | | |
| | | | | - C1055 Fairfax Advanced Utility Relocations price bids due | | | |
| | | | | - C1056 La Cienega Advanced Utility Relocations advertise for bids | | | |
| | | | | - RFP Technical Evaluation - C1045 Design / Build contract | | | |
| | | | | - Design-Build RFP Package - C1078 Division 20 MOW and NRV facilities | | | |
| TOTAL PARCELS | 27 | 0 | 27 | | | | |

PROJECT OVERVIEW & STATUS

Section 1 of the Westside Purple Line Extension Project is the first of three sections to be designed and constructed as part of the Los Angeles County Metropolitan Transportation Authority (LACMTA) Measure R Program. The program was approved by Los Angeles County voters in November 2008 and provides a half-cent sales tax to finance new transportation projects. In April 2012, the three sections of the Project were environmentally cleared and adopted by LACMTA Board of Directors.

Section 1 will extend the existing Purple Line by 3.92 miles beginning at the Wilshire/Western Station. From this station, the twin tunnel alignment will travel westerly within the existing Wilshire Boulevard right-of-way. Stations will be located at the intersections of Wilshire/La Brea, Wilshire/Fairfax, and Wilshire/La Cienega. All three of the station boxes will be located within the Wilshire Boulevard right-of-way with station portals extending to off-street entrances. Two of the stations, Wilshire/La Brea and Wilshire/Fairfax are within the jurisdiction of the City of Los Angeles. The Wilshire/La Cienega Station is within the City of Beverly Hills jurisdiction.

Design

The Engineering Management Services Consultant continues to advance the design packages for the two remaining Advanced Utility Relocations (AUR) contracts, the Division 20 Maintenance-of-Way Building and the Non -Revenue Vehicle facility and supporting Metro in the procurement of the major Design/Build Contract (C1045).

For the Wilshire/Fairfax Station AUR Contract (C1055), the design was finalized and approved by the Los Angeles Department of Water and Power (LADWP) and by the City of Los Angeles Bureau of Engineering (LABOE). Traffic control drawings were approved by the City of Los Angeles Department of Transportation (LADOT). Also, the technical documents were finalized.

For the Wilshire/La Cienega Advanced Utility Relocations Contract (C1056), comments were received from the City of Beverly Hills on the most recent design submittal and are being addressed to finalize the design package. A draft submittal of the technical documents for Metro's review is expected to occur early next period.

The final temporary signal and traffic control plans for the Wilshire/Western tunnel boring machine recovery shaft, Wilshire/La Brea Station and Wilshire/Fairfax Station were submitted to LADOT for approval.

The engineer's estimates for Contract 1045 and Contract 1055 are being finalized.

Major Contract Procurement

Amendment 5 for Contract C1045 was issued on December 16, 2013. The amendment included minor updates to the Contract and Proposal Documents, and an update to the Schedule of Quantities and Prices – Schedule B. The Letter of Invitation was also revised to extend the Proposal due date from January 3, 2014 to January 30, 2014.

Amendment 7 for Contract C1055 is planned to be issued in early January 2014. The amendment will include LADWP's approved re-design, the LADOT approved traffic control plans and updates to the technical documents. Price bids are due on January 28, 2014.

PROJECT OVERVIEW & STATUS (Continued)

Construction

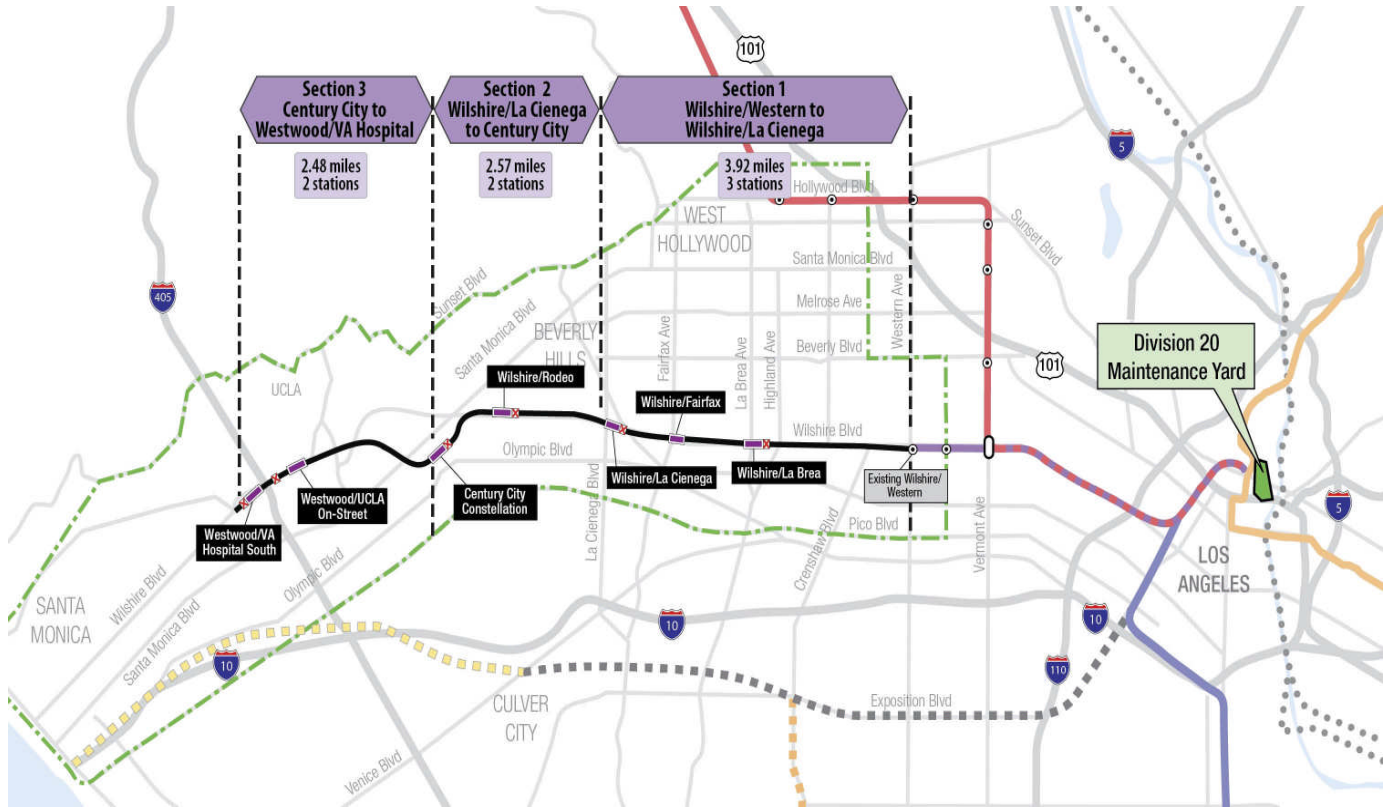
Excavation of the Fairfax Exploratory Shaft, Contract C1034, has progressed to the 44 foot level. To date, no fossils have been found. The design/build proposers have been invited to visit the site on January 17, 2014. This will mark the third visit prior to submitting their proposals on January 30, 2014.

The advanced utility relocations at Wilshire/La Brea, Contract C1048, are five months into construction. The contractor is working within the approved holiday moratorium period, nights and weekends.

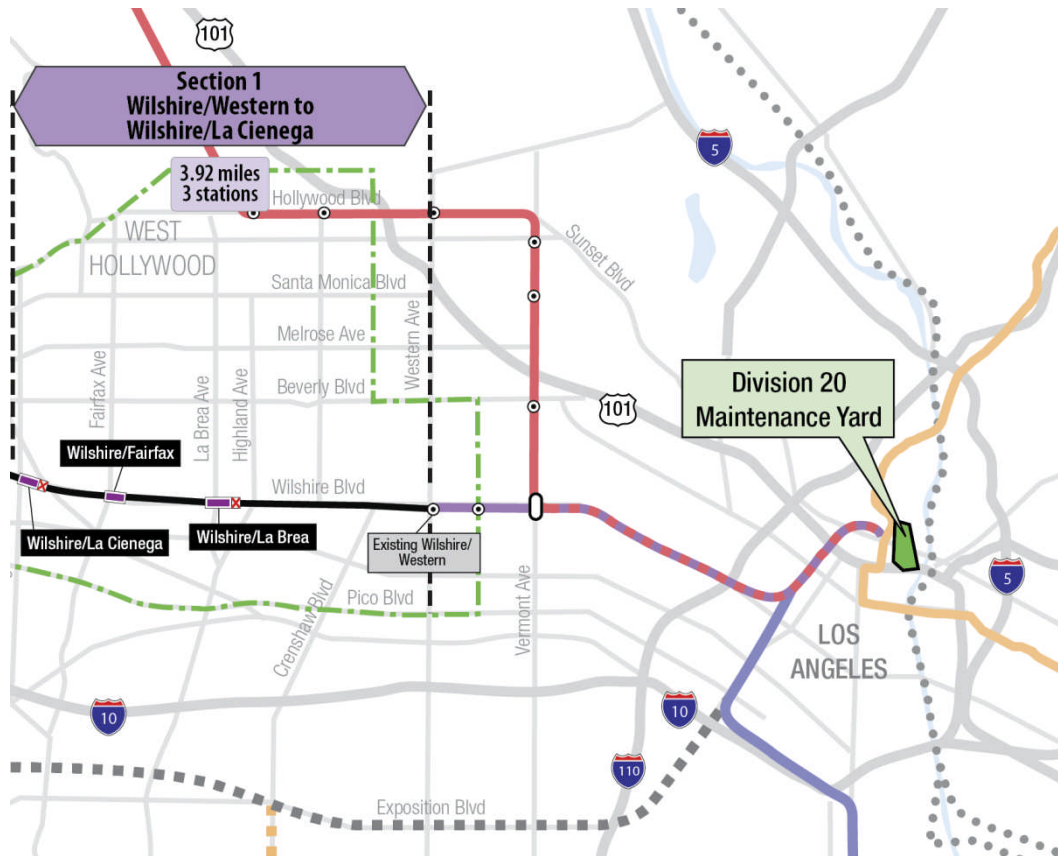
MANAGEMENT ISSUES

No Management Issues this period.

PROJECT ALIGNMENT by SECTIONS



PROJECT ALIGNMENT SECTION 1



BASE PROJECT SCOPE

Section 1 of the Westside Purple Line Extension Project is the first of three sections to be designed and constructed as part of the Los Angeles County Metropolitan Transportation Authority (LACMTA) Measure R Program. The program was approved by Los Angeles County voters in November 2008 and provides a half-cent sales tax to finance new transportation projects. In April 2012, the three sections of the Project were environmentally cleared and adopted by LACMTA Board of Directors.

Section 1 will extend the existing Purple Line by 3.92 miles beginning at the Wilshire/Western Station. From this station, the twin tunnel alignment will travel westerly within the existing Wilshire Boulevard right-of-way. Stations will be located at the intersections of Wilshire/La Brea, Wilshire/Fairfax, and Wilshire/La Cienega. All three of the station boxes will be located within the Wilshire Boulevard right-of-way with station portals extending to off-street entrances. Two of the stations, Wilshire/La Brea and Wilshire/Fairfax are within the jurisdiction of the City of Los Angeles. The Wilshire/La Cienega Station is within the City of Beverly Hills jurisdiction.

The Wilshire/La Brea Station box will be located under the center of Wilshire Boulevard in between Detroit Street and Orange Drive. A double crossover will be located east of the station box. The station entrance will be on the northwest corner of Wilshire Boulevard and La Brea Avenue.

The Wilshire/Fairfax Station box will be located under the center of Wilshire Boulevard west of Fairfax Avenue to west of Ogden Drive. The station entrance will be on the southeast corner of Wilshire Boulevard and Orange Grove Avenue.

The Wilshire/La Cienega Station box will be located under the center of Wilshire Boulevard immediately east of La Cienega Boulevard. A double crossover will be located east of the station box. The station entrance will be on the northeast corner of Wilshire Boulevard and La Cienega Boulevard. Since the station will be the terminus station for Section 1, a tail track will be located west of the station box.

Contract C1034 – Wilshire/Fairfax Exploratory Shaft

Metro is constructing an exploratory shaft to observe ground conditions prior to the award of Contract C1045. The location of the exploratory shaft is adjacent to the future Wilshire/Fairfax Station. The construction of the shaft includes furnishing and installing monitoring instruments, ventilation, and record and report instrumentation data during the excavation of the shaft. After construction of the shaft, the shaft will be maintained for an observation time period. Afterwards, the shaft will be dismantled and the site backfilled in a condition acceptable to the property owner.

BASE PROJECT SCOPE (Continued)

Contract C1048 – Wilshire/La Brea Advanced Utility Relocations

Relocate existing LADWP power and water utilities within the construction limits of the Wilshire/La Brea Station. The contractor is to obtain the necessary permits necessary for working in streets, procure materials, and coordinate with the utility owner. The contractor is to construct the new facilities in accordance with utility plans and specifications, provide traffic control, restore streets, and support utility crews installing cabling and during cut-over of the existing utilities.

Contract C1055 – Wilshire/Fairfax Advanced Utility Relocations

Relocate existing LADWP power and water utilities within the construction limits of the Wilshire/Fairfax Station. The contractor is to obtain the necessary permits necessary for working in streets, procure materials, and coordinate with the utility owner. The contractor is to construct the new facilities in accordance with utility plans and specifications, provide traffic control, restore streets, and support utility crews installing cabling and during cut-over of the existing utilities.

Contract C1056 – Wilshire/La Cienega Advanced Utility Relocations

Relocate existing City of Beverly Hills water and sewer utilities within the construction limits of the Wilshire/La Cienega Station. The contractor is to obtain the necessary permits necessary for working in streets, procure materials, and coordinate with the utility owner. The contractor is to construct the new facilities in accordance with utility plans and specifications, provide traffic control, restore streets, and support utility crews during cut-over of the existing utilities.

Contract C1045 – Tunnels, Stations, Trackwork, Systems and Systems Integration Testing

The procurement of this contract utilizes a two-step approach with the submittal of qualification statements through a Request for Qualification (RFQ) process, prequalification of qualified proposers followed by the release of a Request for Proposals (RFP) soliciting technical and price proposals with an option at Metro's discretion for Best and Final Offers (BAFO).

The Design/Build contract provides for final design and construction of the infrastructure along the 3.92 mile alignment. Contract scope includes demolition and removal of structures and clearing sites to facilitate construction operations. The structures to be constructed include twin bored tunnels, complete with cross-passages and walkways, including all mechanical, electrical and finish work. A retrieval shaft will be constructed to the west of the existing Wilshire/Western Station for extraction of the tunnel boring machines. Three underground stations are to be constructed, two with double-crossovers, and the terminus station to include tail-tracks. Each station has a single entrance plaza with stairs, escalators and elevators which meet ADA requirements. The scope of work includes all architectural finishes, mechanical, electrical, systems and equipment including train control, traction power, communications, trackwork and the system tie-in to the existing Metro Purple Line, testing and commissioning.

BASE PROJECT SCOPE (Continued)

Metro Furnished Equipment

Metro will procure separate contracts to provide the 34 Heavy Rail Vehicles (HRV) and the Universal Fare System (UFS) necessary to operate the extension to the Purple Line. The scope of the HRV contract includes design, manufacturing, testing and delivery of the vehicles. The scope of the UFS contract includes design, fabrication and installation of equipment at the three stations and system testing.

Start Up

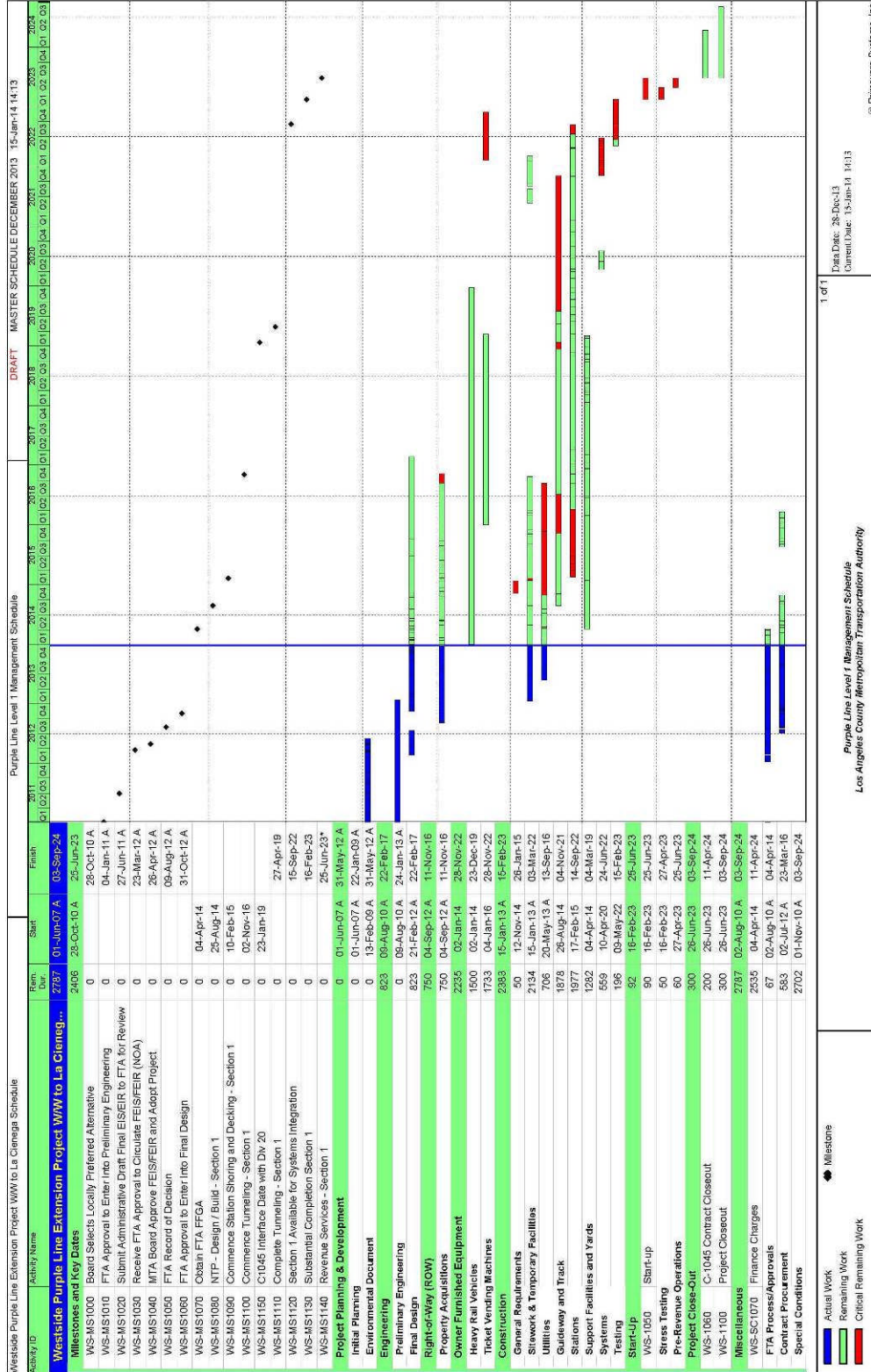
The commencement of pre-revenue operations will be determined by Metro. Generally, all systems integration testing will have been completed and passed. All testing will be required to include and pass a “stress test” of maximum operational service levels to be acceptable. Pre-Revenue Operations include train runs, especially those involving multiple trains, on the integrated and fully operational extension; rehearsal of expected revenue operations scenarios; as well as abnormal and emergency scenarios in which random combinations of system interactions are tested; equipment “burned-in”; and training of Metro personnel who will eventually operate and maintain the extension and for emergency services personnel. Activities occurring during Pre-Revenue Operations are carried out by a designated Metro Project Rail Activation Group.

KEY MILESTONES SIX- MONTH LOOK AHEAD

| | Milestone Date | Dec-11 | Jan-12 | Feb-12 | Mar-12 | Apr-12 | May-12 |
|--|----------------|--------|--------|--------|--------|--------|--------|
| C1055 Fairfax AUR - Amendment 7 to Bidders | 01/03/14 | | ◆ | | | | |
| C1055 Fairfax AUR - Bids Due | 01/28/14 | | □ | | | | |
| C1045 Design / Build Contract - Submit Proposals | 01/30/14 | | □ | | | | |
| C1048 La Brea AUR - Complete Construction - Power | 02/01/14 | | | □ | | | |
| Complete Final Design of AUR Utilities - La Cienega | 02/06/14 | | | ○ | | | |
| C1056 La Cienega AUR - Advertise | 02/21/14 | | | ◆ | | | |
| C1034 Exploratory Shaft - Complete Construction | 02/24/14 | | | □ | | | |
| C1034 Exploratory Shaft - Begin Monitoring Period | 02/25/14 | | | □ | | | |
| Complete Final Design of 3rd Party Utilities - La Brea | 04/02/14 | | | | | ○ | |
| Obtain FTA FFGA | 04/04/14 | | | | | FTA | |
| | | | | | | | |

- ◆ MTA Staff
- Ⓜ MTA Board Action
- FTA (Federal Transportation)
- △ Other Agencies
- Contractors
- PB
- "A" following date is actual and completed
- * New

PROJECT SUMMARY SCHEDULE



CRITICAL PATH NARRATIVE

Critical Path:

The critical path for the Westside Purple Line Extension Project begins with the procurement process for the C1045 Design / Build contract, mobilization of the design team for the selected contractor, and the start of final design for station boxes and tunnels. Final design is concurrent with the La Brea advanced utilities that are being relocated under the C1048 contract. Upon completion, the contractor begins installation of soldier piles, first on the north side of the La Brea station box, and then on the south side. Street decking is then installed, the station structural box is excavated, and invert concrete is placed. Tunneling then begins, first driving eastbound from Wilshire / La Brea to Wilshire / Western. TBMs are removed through a retrieval shaft at Wilshire / Western, re-assembled at Wilshire / La Brea, and then driven westbound to Wilshire / La Cienega. Following construction of cross passages, the critical path continues through construction of the Wilshire / Fairfax station box, installation of trackwork and traction power, systems integration and testing, and pre-revenue operations.

PROJECT COST STATUS

COST REPORT

DOLLARS IN THOUSANDS

| DESCRIPTION | ORIGINAL BUDGET | CURRENT ESTIMATE | | COMMITMENTS | | EXPENDITURES | | CURRENT FORECAST | | ESTIMATE / FORECAST VARIANCE |
|--|-----------------|------------------|------------------|-----------------|----------------|--------------|----------------|------------------|------------------|------------------------------|
| | | PERIOD | TO DATE | PERIOD | TO DATE | PERIOD | TO DATE | PERIOD | TO DATE | |
| ENGINEERING/CONSTRUCTION (465518 & 865518) | - | - | 2,821,957 | (20,442) | 250,970 | 4,377 | 75,959 | - | 2,821,957 | - |
| 465518 & 865518 SUBTOTAL | - | - | 2,821,957 | (20,442) | 250,970 | 4,377 | 75,959 | - | 2,821,957 | - |
| ENVIRONMENTAL/PLANNING - 405518 | - | - | 8,505 | - | 8,505 | - | 8,505 | - | 8,505 | - |
| ENVIRONMENTAL/PLANNING - 465518 | - | - | 30,865 | - | 30,865 | 56 | 30,200 | - | 30,865 | - |
| 405518 & 465518 SUBTOTAL | - | - | 39,370 | - | 39,370 | 56 | 38,704 | - | 39,370 | - |
| TOTAL | - | - | 2,861,327 | (20,442) | 290,340 | 4,433 | 114,663 | - | 2,861,327 | - |

NOTE: EXPENDITURES ARE CUMULATIVE THROUGH NOVEMBER 2013

PROJECT COST ANALYSIS

Original Budget

The Original Budget will be established upon receipt of the FFGA, which is expected in early 2014.

Current Estimate

The Current Estimate is \$2.9 billion. A Current Budget will be established upon Board Approval of the Life-Of-Project budget.

Current Forecast

The Current Forecast is \$2.9 billion.

Commitments

The Commitments decreased by \$20.4 million primarily due to the amendment of Parsons Brinckerhoff's Contract transferring the Preliminary Engineering associated with Sections 2 & 3 from Section 1 of the Westside Purple Line Ext. project. The Commitments represent Board Approved Budget through Fiscal Year 2014. The \$290.3 million in Commitments to date represents 10.1% of the Current Estimate.

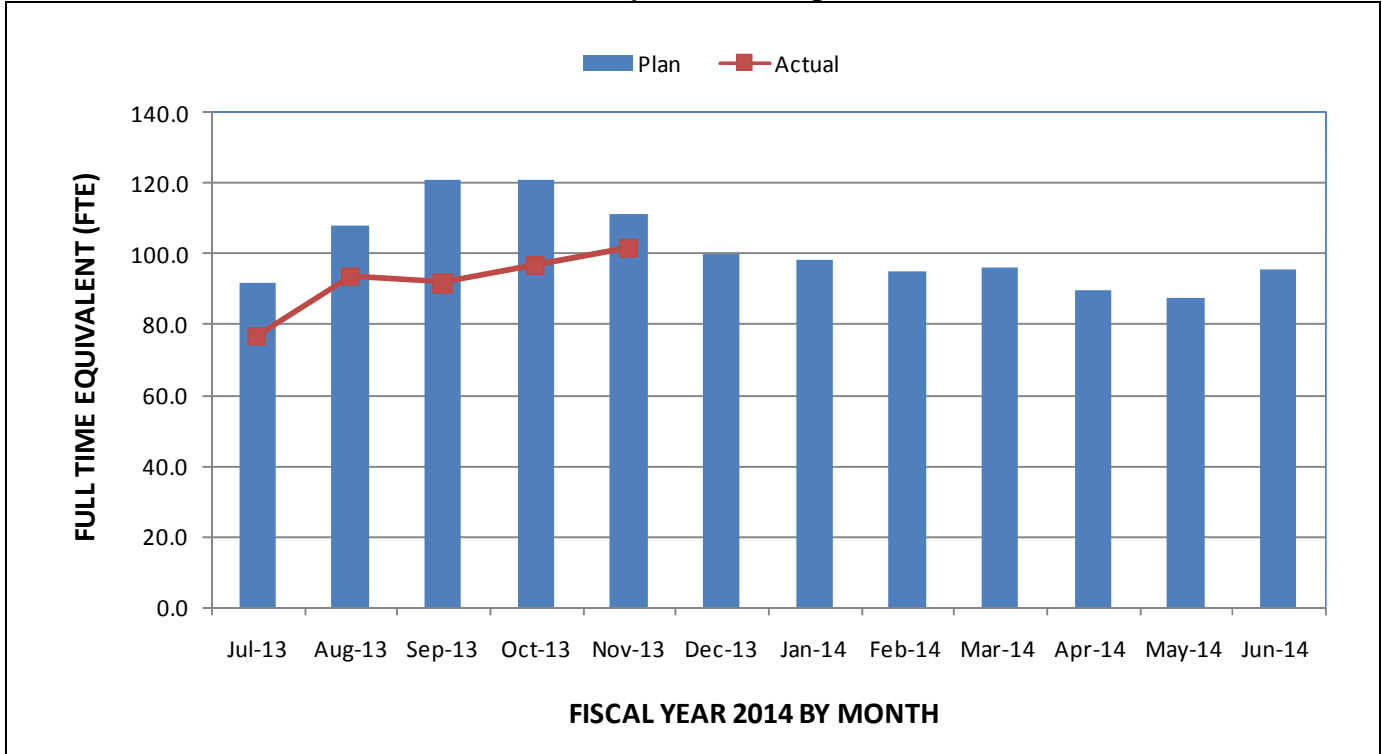
Expenditures

The expenditures are cumulative through November 2013. The expenditures increased by \$4.4 million this period primarily for costs associated with Advanced Utility Relocations, Exploratory Shaft, Third Party Utilities, Engineering Management, Construction Management, Project Management Assistance, and Metro Project Administration. The \$114.7 million in Expenditures to date represents 4.0% of the Current Estimate.

FINANCIAL/GRANT STATUS

Funding source chart will be provided upon adoption of the Life-of-Project Budget.

STAFFING STATUS
Total Project Staffing - FTES

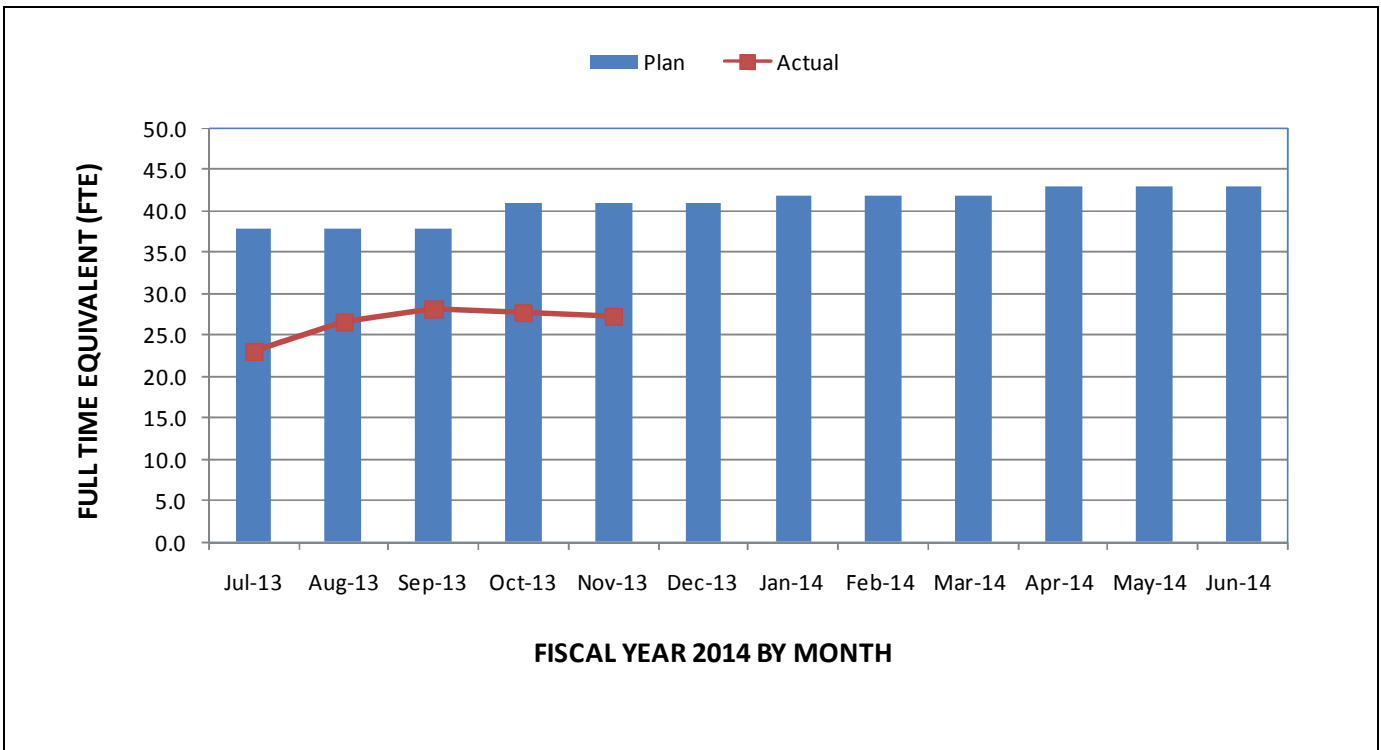


TOTAL PROJECT STAFFING

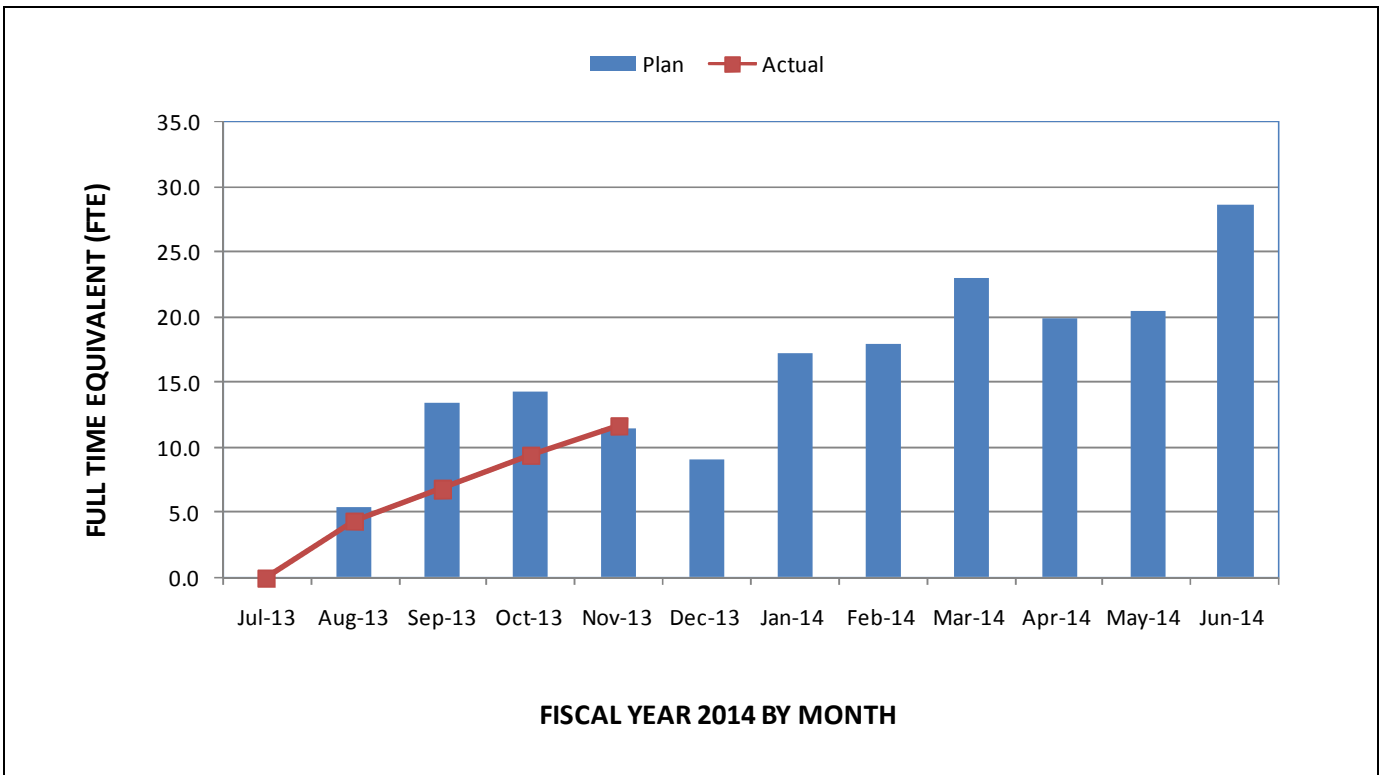
The overall FY14 Total Project Staffing plan averages 101.4 FTE's per month.

For November 2013, there were a total of 27.2 FTE's for MTA's Project Administration staff and 74.6 FTE's for consulting staff. The total project staffing for November 2013 was 101.8 FTEs.

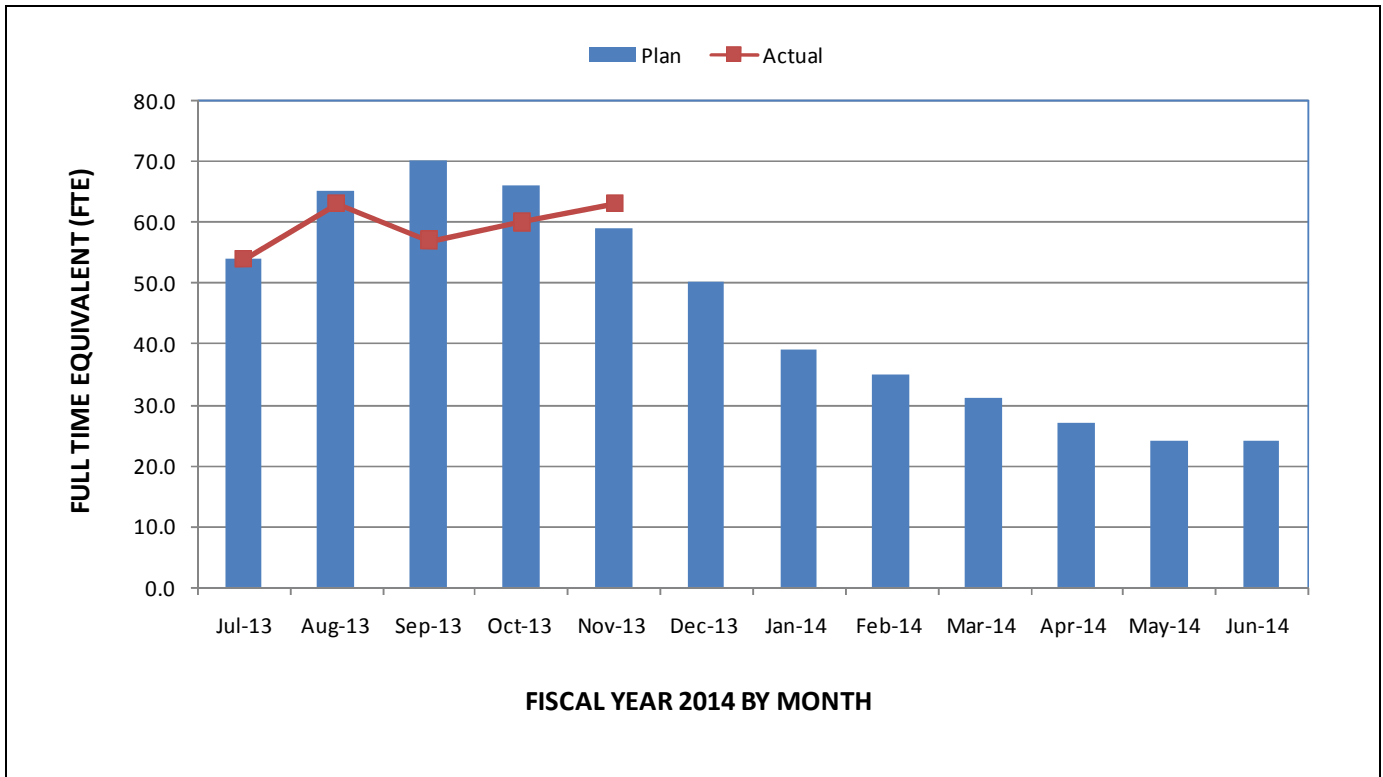
**STAFFING STATUS (Continued)
METRO STAFFING – FTES**



**CONSTRUCTION MANAGEMENT
SERVICES CONSULTANT – FTES**



STAFFING STATUS (Continued) ENGINEERING MANAGEMENT SERVICES CONSULTANT – FTES



REAL ESTATE STATUS

| Purple Line-Segment 1- Real Estate Status Summary December 2013 | | | | | | | | | |
|--|--------------------------|------------------|--------------------|---|--------------------|--------------------------|---------------------------|-----------------------------|--------------------------|
| Contract No. | Number of Parcels | Certified | Decertified | Appraisals In Process/ Completed | Offers Made | Agreements Signed | Condemnation Filed | Relocations Complete | Parcels Available |
| Full Takes | 19 | 19 | 0 | 17 | 8 | 0 | 0 | 0 | 0 |
| Part Takes | 5 | 3 | 0 | 1 | 1 | 0 | 0 | 0 | 0 |
| TCE | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sub Total Parcels: | 27 | 22 | 1 | 18 | 9 | 0 | 0 | 0 | 0 |
| Relocations | | | | | | | | | |
| Total Parcels: | 27 | 22 | 1 | 18 | 9 | 0 | 0 | 0 | 0 |
| | | | | | | | | | |

QUALITY ASSURANCE STATUS

C1034 Exploratory Shaft

- Attended weekly Project staff meetings with the Contractor.
- Reviewed and provided comments on submittals.
- Discussed inspection and testing procedures for upcoming activities.
- Coordinated special inspection as required by LA City Building and Safety.
- Coordination with CMSS Inspector.

C1045 Segment 1 Design/Build

- Attended bi-weekly Project staff meetings and pre-construction meetings.
- Met with the Project Design Quality Manager to discuss upcoming submittals and QA/QC schedule.

C1048 Segment 1 Advanced Utility Relocations – La Brea

- Attended weekly Project staff meetings with the Contractor.
- Reviewed and provided comments on submittals.
- Coordination with CMSS Inspector.

ENVIRONMENTAL STATUS

- Continued environmental monitoring support for test shaft for VOC/GAS AQMD Rule 1116, 1150, construction SWPPP, noise.
- Noise and VOC monitoring in support of 1st Phase AUR Contracts and basic oversight on SWPPP requirements.
- Conducting a reassessment of the ambient noise levels for Wilshire Blvd.
- Continued review of contractor submittals for AUR Project.
- Continued review of Phase I ESA's for property acquisitions.
- Initiated OSHA study for employees at test shaft for VOCs in order to further define levels and PPE requirements.

CONSTRUCTION RELATIONS STATUS

- Attended Pre-Construction Meetings, Advanced Utility Relocation Meetings, Exploratory Shaft Meetings, LADWP Coordination Meetings and Mitigation Plan Meetings.
- Produced and distributed work notices for advance utility relocation at Wilshire and La Brea.
- Gave project presentations to Council President Herb Wesson's office and Windsor Village Community.
- Addressed one noise complaint and median and sidewalk landscape questions on Wilshire.
- Addressed questions on trash around Crenshaw Yard, potential move dates for tenant at Wilshire/La Cienega, street signage for one owner on Wilshire, crane incident and late night operations at test shaft.
- Updated Facebook as needed.

CREATIVE SERVICES STATUS

Art Program

- Ongoing artist outreach, workshop development and research.
- Community meeting support and preparation.
- Materials and visual research, cost estimates and planning.

Design Studio

- Designed banners for layover site.
- Designed project update maps.
- Designed press release support materials.
- Photography jobs.

SAFETY & SECURITY STATUS

- There were no recordable injuries on the Project during December 2013.
- Safety Staff participated in weekly progress meetings and scheduled readiness review meetings to ensure compliance with approved Work Plans and contract specifications.
- Monitored construction activities (Advanced Utility Relocations and Exploratory Shaft) to ensure contractor compliance with contract specifications.
- Safety Staff continues to work with Procurement and Program Management staff to prepare documents for upcoming advanced utility relocation facility design and design/build contract packages.
- A review of the Contractor's work hour and injury report (for Advance Utility Relocation and Exploratory Shaft) contractors for all time periods since respective NTP's.
- The Project to Date Recordable Rate is higher than the most recently published national statistic. This is because of the low number of work hours reported.
- Contractor Work Hours for December 2013 (Design and Construction): 3,835
- Contractor Project to Date Work Hours (Design and Construction) through 12/31/2013: 12,412
- Total Project to Date Work Hours (Contractor and IPO Staff) through 12/31/2013: 25,620
- Project to Date Recordable Injury Rate: 7.8 (One Recordable Injury) (each rate is per 200,000 work hours).
- Project to Date Total Time Away Injury Rate: 0.0 (Zero Time Away from Work Injuries).
- Project to Date Total Days Away Rate: 0.0 (Zero Days Away from Work).
- Providing Safety and Security Contract Compliance oversight during day and night shifts.

THIRD PARTY AGREEMENT STATUS

| Third Party | Type of Agreement | Forecast Execution Date | Required Need Date | Status/ Comments |
|---|---|--------------------------------|---------------------------|--|
| City of Los Angeles | Amendment to Master Cooperative Agreement | N/A | N/A | Parties will work under 2003 MCA. |
| City of Beverly Hills | MCA | 3/14 | 3/14 | COBH has provided comments. Comments and a path forward are in discussion between Metro's County Counsel and COBH's Attorney. |
| Los Angeles Department of Water and Power | Amendment to Memorandum of Understanding | N/A | N/A | Metro and LADWP will continue to work under the terms of the previous Cooperative Agreement. |
| Los Angeles County Public Works | Letter of Agreement | 4/11 | 3/12 | Executed |
| Caltrans | Amendment | 8/11 | 3/12 | Executed |
| Private Utilities | LOA, MOU or UCA | 3/14 | N/A | Metro is working with affected third party utilities under existing agreements except for Quest, Time Warner and Level 3 of which comments have been received by Metro from each utility to establish a new MCA. |

ADVANCED UTILITY RELOCATION STATUS

- Verizon Business and Level 3 fiber optic relocation work has been completed. Quest and Zayo to complete by mid to late February 2014.
- CES is performing the last of the splicing and testing on the fiber lines.
- LADWP Power is scheduled to begin cable pulling on February 3, 2014.

PEAK HOUR AND NIGHTTIME CONSTRUCTION VARIANCES

Metro is actively pursuing extended hour variances/exemptions to accommodate the Project needs. Metro staff is working with the City of Los Angeles Bureau of Engineering and the Los Angeles Police Commission to obtain Peak Hour Exemption and Night Time Work Variance. Current efforts center around extending the existing extended hour permits to accommodate extended hour variances to allow night work and weekend work to accommodate the La Brea and Fairfax soldier pile and decking installation for the D/B contract; and processing of peak hour variance via approved WTCP's to accommodate Metro's D/B soldier pile installation scope at all three stations.

- The Peak Hour Exemption for Wilshire/La Brea pile installation was approved by the City of Los Angeles on November 8, 2013.
- The Nighttime Noise Variance for the Wilshire/La Brea and Wilshire/Fairfax Advanced Utility Relocation work was extended to April 14, 2014.

CHRONOLOGY OF EVENTS

| | |
|----------------|--|
| June 2007 | Began Alternatives Analysis study |
| January 2009 | Board approval of Alternatives Analysis study and next phase |
| February 2009 | Began Draft Environmental Impact Statement / Report (EIS / EIR) |
| October 2010 | Board approval of Draft EIS / EIR and selection of locally preferred alternative |
| January 2011 | FTA approval to enter Preliminary Engineering |
| May 2011 | Began Preliminary Engineering |
| April 2012 | Board certification of Final EIS / EIR and adoption of project |
| July 2012 | Completion of Exploratory Shaft final design |
| August 2012 | FTA Record of Decision |
| September 2012 | Began Real Estate Acquisition |
| November 2012 | Began Final Design - C1048 - Advanced Utilities Relocation contract - La Brea |
| November 2012 | Began Final Design - C1055 - Advanced Utilities Relocation contract - Fairfax |
| November 2012 | Issued RFQ for C1045 Design / Build contract |
| December 2012 | Began Final Design - C1056 - Advanced Utilities Relocation contract - La Cienega |
| January 2013 | Began C1034 Exploratory Shaft construction |
| February 2013 | Received RFQ responses for C1045 Design / Build contract |

CHRONOLOGY OF EVENTS (Continued)

| | |
|--------------|--|
| June 2013 | Issued RFP for C1045 Design/Build Contract |
| June 2013 | Beginning of C1055 AUR Fairfax Bid Period |
| July 2013 | Submitted draft FFGA application |
| July 2013 | Completed Final Design - C1048 - Advanced Utilities Relocation contract La Brea |
| July 2013 | Submitted TIFIA loan application |
| August 2013 | Began C1048 Advanced Utilities Relocation at La Brea |
| August 2013 | NTP for Construction Management Services Contract |
| January 2014 | Submitted application to FTA requesting an FFGA. |

CONTRACT C1034 STATUS

| | | | | | | | | | | | | | | | | |
|---|--|-------------------------|----------------|------------------|----------|--------------|-----------------|-----|----------------------------|-----|----------------------------|-----|------------------------------------|-----|-------------------|-----|
| <p>Description: Exploratory Shaft Contractor: Innovative Construction Solutions (ICS)</p> | <p>Contract No. C1034 Status as of: December 27, 2013</p> | | | | | | | | | | | | | | | |
| <p>Progress / Work Completed:</p> <ul style="list-style-type: none"> - Notice to Proceed: 01/15/13 - Demolition / site preparation: 04/05/13 - 06/17/13 - Site Utilities: 05/06/13 - 09/04/13 - Soldier Piles: 07/05/13 - 08/27/13 - Shaft excavation started: 09/03/13 - Shaft excavation to 15' depth: 10/18/13 - Shaft excavation to 20' depth: 11/01/13 - Shaft excavation to 32' depth: 11/30/13 - Shaft excavation to 44' depth: 12/27/13 <p>Areas of Concern:</p> | <p>Major Activities (In Progress):</p> <ul style="list-style-type: none"> - Shaft excavation to fourth waler - Install steel platforms and stairs - Install shotcrete lagging / rebar - Gas monitoring <p>Major Activities Next Period:</p> <ul style="list-style-type: none"> - Continue shaft excavation to fourth waler and bottom of pit - Install steel platforms and stairs - Install shotcrete lagging / rebar - Gas monitoring | | | | | | | | | | | | | | | |
| <p>Schedule Summary:</p> <p>Date of Award: 11/26/12 Notice to Proceed: 01/15/13 Original Contract Duration: 669 CD Current Contract Duration: 683 CD Elapsed Time from NTP: 348 CD</p> | | Original Contract Dates | Time Extension | Current Contract | Forecast | Variance CDs | | | | | | | | | | |
| | Notice to Proceed | 01/15/13 | 0 | 01/15/13 | 01/15/13 | 0 | | | | | | | | | | |
| | Milestone 1: Shaft Completion | 02/13/14 | 16 | 03/01/14 | 02/24/14 | 5 | | | | | | | | | | |
| | Milestone 2: Substantial Completion | 11/14/14 | 14 | 11/28/14 | 11/28/14 | 0 | | | | | | | | | | |
| <p>Physical Percent Complete:</p> <p>Physical completion as of 12/27/13: 65%*</p> <p>* Note: Physical completion assessment reflects work completed and work in progress.</p> | <p>Cost Summary: \$ In millions</p> <table border="0"> <tr> <td>1. Award Value:</td> <td style="text-align: right;">6.5</td> </tr> <tr> <td>2. Executed Modifications:</td> <td style="text-align: right;">0.3</td> </tr> <tr> <td>3. Approved Change Orders:</td> <td style="text-align: right;">0.0</td> </tr> <tr> <td>4. Current Contract Value (1+2+3):</td> <td style="text-align: right;">6.8</td> </tr> <tr> <td>5. Incurred Cost:</td> <td style="text-align: right;">4.3</td> </tr> </table> | | | | | | 1. Award Value: | 6.5 | 2. Executed Modifications: | 0.3 | 3. Approved Change Orders: | 0.0 | 4. Current Contract Value (1+2+3): | 6.8 | 5. Incurred Cost: | 4.3 |
| 1. Award Value: | 6.5 | | | | | | | | | | | | | | | |
| 2. Executed Modifications: | 0.3 | | | | | | | | | | | | | | | |
| 3. Approved Change Orders: | 0.0 | | | | | | | | | | | | | | | |
| 4. Current Contract Value (1+2+3): | 6.8 | | | | | | | | | | | | | | | |
| 5. Incurred Cost: | 4.3 | | | | | | | | | | | | | | | |

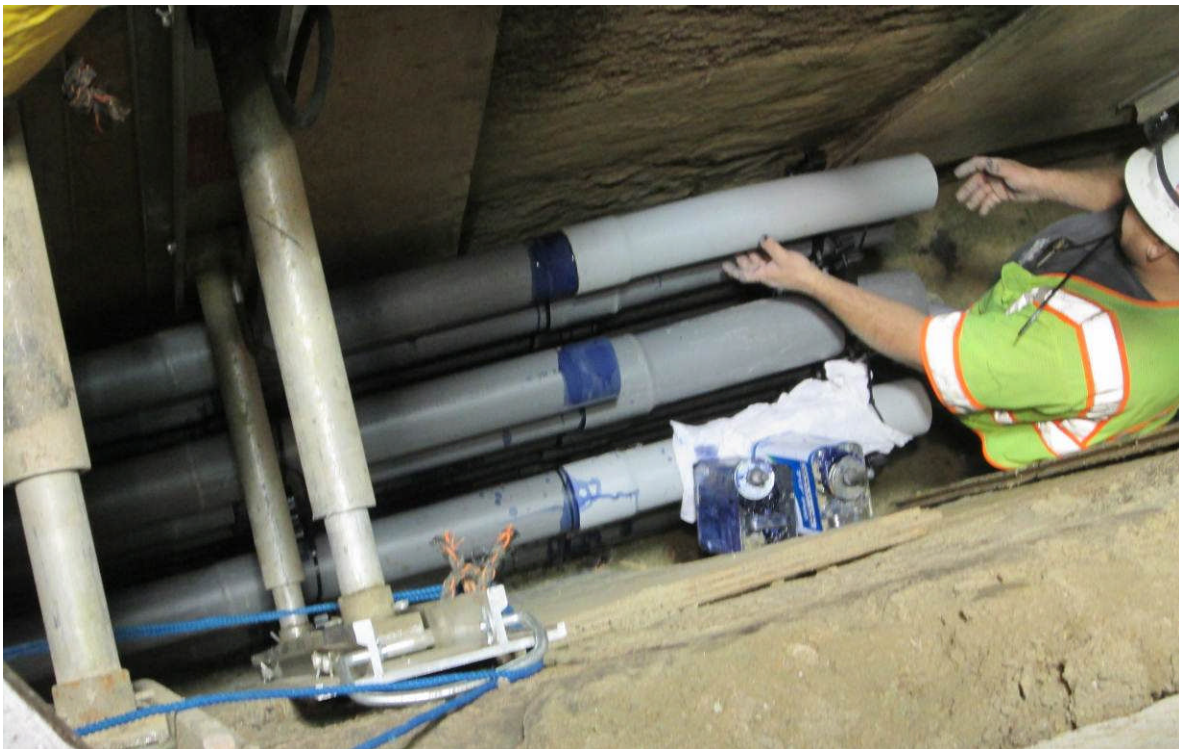
CONTRACT C1048 STATUS

| | | | | | | | | | | | | | | | | |
|---|--|-------------------------|----------------|------------------|----------|--------------|-----------------|-----|----------------------------|-----|----------------------------|-----|------------------------------------|-----|-------------------|-----|
| <p>Description: AUR - La Brea Contractor: Metro Builders & Engineers Group, Ltd.</p> | <p>Contract No. C1048 Status as of: December 27, 2013</p> | | | | | | | | | | | | | | | |
| <p>Progress / Work Completed:</p> <p>Procurement: elect conduit / vaults / hydrants / pipe / fittings Preparation for and power relocation at:</p> <ul style="list-style-type: none"> - Orange Drive - South of Wilshire - Intersection of Orange and Wilshire - Wilshire to Sycamore Ave. - Sycamore Ave - North of Wilshire - Sycamore Ave - South of Wilshire - Wilshire and La Brea <p>Preparation for and water relocation at:</p> <ul style="list-style-type: none"> - Wilshire and La Brea <p>Areas of Concern:</p> | <p>Major Activities (In Progress):</p> <p>At various locations throughout La Brea Station area:</p> <ul style="list-style-type: none"> - Traffic control - Site preparation / excavation / shoring - Conduit installation - Encase conduit - Hydrant installation - Water line installation - Slurry backfill - Temporary paving <p>Major Activities Next Period:</p> <p>At various locations throughout La Brea Station area:</p> <ul style="list-style-type: none"> - Traffic control - Continue site preparation / excavation / shoring - Continue conduit installation - Continue encase conduit - Continue slurry backfill - Continue hydrant / water line installation | | | | | | | | | | | | | | | |
| <p>Schedule Summary:</p> <p>Date of Award: 05/13/13 Notice to Proceed: 08/01/13 Original Contract Duration: 230 CD Current Contract Duration: 266 CD Elapsed Time from NTP: 150 CD</p> | | Original Contract Dates | Time Extension | Current Contract | Forecast | Variance CDs | | | | | | | | | | |
| | Notice to Proceed | 08/01/13 | 0 | 08/01/13 | 08/01/13 | 0 | | | | | | | | | | |
| | Milestone 1: Completion of LADWP Power Work | 12/28/13 | 0 | 12/28/13 | 02/01/14 | -35 | | | | | | | | | | |
| | Milestone 2: Substantial Completion | 03/18/14 | 0 | 03/18/14 | 04/23/14 | -36 | | | | | | | | | | |
| <p>Physical Percent Complete:</p> <p>Physical completion as of 12/27/13: 47%*</p> <p>* Note: Physical completion assessment reflects work completed and work in progress.</p> | <p>Cost Summary: \$ In millions</p> <table border="0"> <tr> <td>1. Award Value:</td> <td style="text-align: right;">6.2</td> </tr> <tr> <td>2. Executed Modifications:</td> <td style="text-align: right;">0.0</td> </tr> <tr> <td>3. Approved Change Orders:</td> <td style="text-align: right;">0.0</td> </tr> <tr> <td>4. Current Contract Value (1+2+3):</td> <td style="text-align: right;">6.2</td> </tr> <tr> <td>5. Incurred Cost:</td> <td style="text-align: right;">1.7</td> </tr> </table> | | | | | | 1. Award Value: | 6.2 | 2. Executed Modifications: | 0.0 | 3. Approved Change Orders: | 0.0 | 4. Current Contract Value (1+2+3): | 6.2 | 5. Incurred Cost: | 1.7 |
| 1. Award Value: | 6.2 | | | | | | | | | | | | | | | |
| 2. Executed Modifications: | 0.0 | | | | | | | | | | | | | | | |
| 3. Approved Change Orders: | 0.0 | | | | | | | | | | | | | | | |
| 4. Current Contract Value (1+2+3): | 6.2 | | | | | | | | | | | | | | | |
| 5. Incurred Cost: | 1.7 | | | | | | | | | | | | | | | |

CONSTRUCTION PHOTOGRAPHS



Exploratory Shaft Placement of the First Waler at 15' Level.



Ductbank Installation on La Brea Blvd. by the C1048 (Wilshire/La Brea) Contractor.

CONSTRUCTION PHOTOGRAPHS



Utility Trench Hand Excavation by the C1048 (Wilshire/La Brea) Contractor.

**APPENDIX
COST AND BUDGET TERMINOLOGY**

Project Cost Descriptions

| | |
|------------------|---|
| ORIGINAL BUDGET | The Original Project Budget as authorized by the Metropolitan Transportation Authority (Metro) Board (to be established). |
| CURRENT BUDGET | The Original Budget plus all budget amendments approved by formal Metro Board action. Also referred to as Approved Budget. |
| COMMITMENTS | The total of actual contracts awarded, executed change orders or amendments, approved work orders of Master Cooperative Agreements, offers accepted for purchase of real estate, and other Metro actions which have been spent or result in the obligation of specific expenditures at a future time. |
| EXPENDITURES | The total dollar amount of funds expended by Metro for contractor or consultant services, third party services, staff salaries, real estate and other expenses that is reported in Metro's Financial Information System (FIS). |
| CURRENT FORECAST | The best estimate of the final cost of the Project when all checks have been issued and the Project is closed out. Current Forecast is composed of actual costs incurred to date, the best estimate of work remaining and a current risk assessment for each budgeted cost item. |

Cost Report by Element Descriptions

| | |
|-----------------------|---|
| CONSTRUCTION | Includes construction contracts. Cost associated with Guideways, Stations, Southwestern Yard, Sitework/Special Conditions and Systems. |
| RIGHT-OF-WAY | Includes purchase cost of parcels, easements, right-of-entry permits, escrow fees, contracted real estate appraisals and tenant relocation. |
| VEHICLES | Includes the purchase of Heavy Rail Vehicles and spare parts for the Project. |
| PROFESSIONAL SERVICES | Includes design engineering, project management assistance, construction management support services, legal counsel, agency staff costs, and other specialty consultants. |
| CONTINGENCY | A fund established at the beginning of a project to provide for anticipated but unknown additional costs that may arise during the course of the Project. |
| PROJECT REVENUE | Includes all revenue received by Metro as a direct result of project activities. This includes cost sharing construction items, insurance premium rebates, and the like. |

APPENDIX
LIST OF ACRONYMS

| | |
|----------|---|
| ATC | Automatic Train Control |
| ATSAC | Automated Traffic Surveillance and Control |
| BAFO | Best and Final Offer |
| BIM | Building Information Modeling |
| BNSF | Burlington Northern Santa Fe Railway Company |
| BRT | Bus Rapid Transit |
| CADD | Computer Aided Drafting and Design |
| CALTRANS | California Department of Transportation |
| CCTV | Closed Circuit Television |
| CD | Calendar Day |
| CEQA | California Environmental Quality Act |
| CM | Construction Manager |
| CMAQ | Congestion Mitigation and Air Quality Improvement Program |
| CMSC | Construction Management Services Consultant |
| CN | Change Notice |
| CO | Change Order |
| COBH | City of Beverly Hills |
| COLA | City of Los Angeles |
| CPM | Critical Path Method |
| CPUC | California Public Utilities Commission |
| CR | Camera Ready |
| CSPP | Construction Safety Phasing Plan |
| CTC | California Transportation Commission |
| CUD | Contract Unit Description |
| DB | Design Build |
| DBB | Design Bid Build |
| DOT | Department of Transportation |
| DWP | Department of Water and Power |
| EIR | Environmental Impact Report |
| EIS | Environmental Impact Statement |
| EMSC | Engineering Management Services Consultant |
| EPBM | Earth Pressure Balance Machine |
| FAA | Federal Aviation Administration |
| FAR | Federal Acquisition Regulation |
| FD | Final Design |
| FEIS | Final Environmental Impact Statement |
| FEIR | Final Environmental Impact Report |
| FIS | Financial Information System |
| FLSR | Fire Life Safety Report |
| FONSI | Finding of No Significant Impact |
| FRA | Federal Railroad Administration |
| FSEIR | Final Supplemental Environmental Impact Report |
| FSEIS | Final Supplemental Environmental Impact Statement |

**APPENDIX
LIST OF ACRONYMS (Continued)**

| | |
|--------|--|
| FTA | Federal Transit Administration |
| FTE | Full Time Equivalent |
| GBR | Geotechnical Baseline Report |
| GDSR | Geotechnical Design Summary Report |
| HMM | Hatch Mott MacDonald |
| HRT | Heavy Rail Transit |
| HRV | Heavy Rail Vehicle |
| IFB | Invitation for Bid |
| IPMO | Integrated Project Management Office |
| JV | Joint Venture |
| LA | Los Angeles |
| LABOE | Los Angeles Bureau of Engineering |
| LABOS | Los Angeles Bureau of Sanitation |
| LABSL | Los Angeles Bureau of Street Lighting |
| LACFCD | Los Angeles County Flood Control District |
| LACMTA | Los Angeles County Metropolitan Transportation Authority |
| LADOT | Los Angeles Department of Transportation |
| LADPW | Los Angeles Department of Public Works |
| LADWP | Los Angeles Department of Water and Power |
| LAUSD | Los Angeles Unified School District |
| LAWA | Los Angeles World Airports |
| LAX | Los Angeles International Airport |
| LNTP | Limited Notice To Proceed |
| LONP | Letter Of No Prejudice |
| LOP | Life-of-Project |
| LPA | Locally Preferred Alternative |
| LRTP | Long Range Transportation Plan |
| LRV | Light Rail Vehicle |
| MCA | Master Cooperative Agreement |
| MIS | Major Investment Study |
| MOU | Memorandum of Understanding |
| MPSR | Monthly Project Status Report |
| N/A | Not Applicable |
| NEPA | National Environmental Protection Act |
| NOD | Notice of Determination |
| NPDES | National Pollution Discharge Elimination System |
| NTE | Not to Exceed |
| NTP | Notice To Proceed |
| OCC | Operations Control Center |
| OSHA | Occupational Health and Safety Administration |
| PA/VMS | Public Address/Visual Messaging Sign |
| PE | Preliminary Engineering |

**APPENDIX
LIST OF ACRONYMS (Continued)**

| | |
|--------|---|
| PEER | Permit Engineering Evaluation Report |
| PIP | Project Implementation Plan |
| PLA | Project Labor Agreement |
| PM | Project Manager |
| PMIP | Project Management Implementation Plan |
| PMOC | Project Management Oversight Consultant |
| PMP | Project Management Plan |
| P&P | Policies & Procedures |
| PR | Project Report |
| PSR | Project Study Report |
| QA | Quality Assurance |
| QAR | Quality Assurance Report |
| QC | Quality Control |
| QPSR | Quarterly Project Status Report |
| QTIB | Qualified Transit Improvement Bonds |
| RAMP | Real Estate Acquisition Management Plan |
| RCHAR | Rail Crossing Hazards Analysis Report |
| RCMP | Risk Assessment Management Plan |
| RFC | Request For Change |
| RFP | Request For Proposals |
| RFSC | Request for Special Consideration |
| RHA | Risk Hazard Analysis |
| RLPE | Red Light Photo Enforcement |
| ROC | Rail Operations Center |
| ROD | Record Of Decision |
| ROM | Rough Order of Magnitude |
| ROW | Right-Of-Way |
| RPZ | Runway Protection Zone |
| RSD | Revenue Service Date |
| SAV | Stand Alone Validator |
| SCAQMD | Southern California Air Quality Management District |
| SCADA | Supervisory Control and Data Acquisition |
| SCC | Standard Cost Category |
| SCE | Southern California Edison |
| SCG | Southern California Gas Company |
| SCRRA | Southern California Regional Rail Authority |
| SHA | State Highway Account |
| SHPO | State Historic Preservation Office |
| SIT | System Integration Testing |
| SOQ | Statement of Qualification |
| SOV | Schedule Of Value |
| SOW | Statement Of Work |

**APPENDIX
LIST OF ACRONYMS (Continued)**

| | |
|-------|--|
| SP | Special Provision |
| SSMP | Safety and Security Management Plan |
| STB | Surface Transportation Board |
| STIP | State Transportation Improvement Program |
| STP | Surface Transportation Program |
| STV | STV Group |
| TBD | To Be Determined |
| TBM | Tunnel Boring Machine |
| TCE | Temporary Construction Easement |
| TCRP | Traffic Congestion Relief Program |
| TIFIA | Transportation Infrastructure Finance and Innovation Act |
| TIGER | Transportation Investment Generating Economic Recovery |
| TPSS | Traction Power Substation |
| TRACS | Transit Automatic Control System |
| TVA | Threat Vulnerability Analysis |
| TVM | Ticket Vending Machine |
| UFS | Universal Fare System |
| USDOT | United States Department Of Transportation |
| VE | Value Engineering |
| WBS | Work Breakdown Structure |
| WP | Work Package |
| YOE | Year of Expenditure |